## **CARBOHYDRATE RESEARCH VOL. 204 (1990)**

## **AUTHOR INDEX**

Adachi, S., 227

Bernet, B., 11 Brade, H., 1, 93

Caviedes, M.A., 103 Chalykh, A.Ye., 161 Charon, D., 93

Dolatshahi, N., 145 Dziewiszek, K., 1

Fukushima, K., 233

Galland-Barrera, G., 145 Gálová, Z., 27 Gil-Serrano, A., 103 Glaudemans, C.P.J., 167

Hansmann, C.F., 221 Hendriks, H.E.J., 121 Hiromi, K., 187, 207 Holst, O., 93 Holst, O., 1 Hosang, M., 131 Huber, B., 215

Itoh, T., 227 Ivanova, I.A., 65 Iyengar, T.A., 197

Kocharova, N.A., 157 Kochetkov, N.K., 65 Kondo, H., 207 Kováč, P., 167 Kožár, T., 27 Kristen, H., 109 Kuster, B.F.M., 121

Ledl, F., 215 Lehmann, J., 141 Lin, T.-H., 167

Mahadevappa, D.S., 197 Marin, G.B., 121 Matsumoto, T., 187 Megias, M., 103 Mukai, T., 227 Nakatani, H., 207 Niemelä, K., 37 Nikolaev, A.V., 65 Nilsson, K.G.I., 79

Ogawa, S., 57 Ohnishi, M., 187 Osanai, S., 233 Oxley, D., 85

Pavliak, V., 167 Petrák, F., 27 Petry, S., 141 Piantini, U., 11 Pitchikina, N.M., 161 Puttaswamy, 197

Röhrscheidt-Andrzejewski, E., 93

Sanchez del Junco, A., 103 Shashkov, A.S., 157 Shibaev, V.N., 65 Steffan, W., 109

Tejero-Mateo, P., 103 Toba, T., 227 Tonegawa, T., 57 Tronchet, J.M.J., 145 Tschopp, T.B., 131 Tvaroška, L. 27

Varbanets, L.D., 157 Vasella, A., 11 Vogel, C., 109

Weimann, B.-J., 131 Wessel, H.P., 131 Wilkinson, S.G., 85

Yamanaka, T., 187 Yamauchi, T., 233 Yanagihara, R., 233 Yoshikawa, S., 233

Zamojski, A., 1 Ziegler, T., 167 Zosimo-Landolfo, G., 145



## SUBJECT INDEX

- 3-Acetamido- and 3-acetoxy-piperidine and -tetrahydropyran, determination by <sup>1</sup>H-n.m.r. spectroscopy of the gauche effect of, 11
- Aldopentoses by chloramine-B in alkaline medium: a kinetic and mechanistic study, oxidation of some, 197
- Amide-linked glutamic acid, presence of, in an acidic polymer produced by the O23 reference strain of Serratia marcescens, 85
- Amino-2-deoxyvalidamine and its three diastereoisomers, synthesis of DL-2-, 57
- 1-Amino-1,4-dideoxy-2,3-hexodiuloses and 2-aminoacetylfurans, formations of, in the Maillard reactions, 215
- O-Amino sugars, protected, and their derivatives, synthesis, 145
- α-Amylases, human and porcine, in vitro action on cyclomalto-oligosaccharides, 207
- Analysis, theoretical conformational, of carbohydrates, by RAMM, a new procedure for, 27 Antigalactan antibodies, monoclonal, synthesis
- of specifically deoxygenated ligands and studies of their binding, 167
- Antiproliferative and anticoagulant properties of heparin, carboxyl-reduced sulfated heparin, and Trestatin A sulfated, 131
- Application of the hydrogenphosphonate approach in the synthesis of glycosyl phosphosugars linked through secondary hydroxyl groups, 65
- Binding of isomaltose and maltose to the glucoamylase from Aspergillus niger, as studied by fluorescence spectrophotometry and steadystate kinetics, 187
- Bis(2-acetamido-2-deoxy-β-D-glucopyranosyloxy)decane, the preparation and enzymic galactosylation of 1,10-, 141
- Bismuth on the selective, oxidation of lactose on supported palladium catalysts, the effects of, 121
- Capsular polysaccharide from Lactobacillus kefiranofaciens K<sub>1</sub>, structural investigation of the, 227
- Carbohydrates, theoretical conformational analysis of, by RAMM, a new procedure for, 27
- Carboxylic acids, conversion of xylan, starch, and chitin into, by treatment with alkali, 37

- Clavibacter michiganense, phosphorus-containing, glycopolymers (teichoic acids) of the cell walls, 157
- Conformational analysis, of carbohydrates, by RAMM, a new procedure for theoretical, 27
- Conversion of xylan, starch, and chitin into carboxylic acids by treatment with alkali, 37
- Cyclomalto-oligosaccharides, in vitro action of human and porcine α-amylases on, 207
- 3-Deoxy-D-manno-2-octulopyranosonate 7-(2aminoethyl phosphate) from the inner core region of E. coli K12 and S. minnesota lipopolysaccharides, isolation and characterisation of, 93
- Deoxygenated ligands related to (1→6)-β-D-galacto-oligosaccharides, synthesis, studies on binding to monoclonal antigalactan antibodies. 167
- Determination of the gauche effect of 3-acetamido- and 3-acetoxy-piperidine and -tetrahydropyran by <sup>1</sup>H-n.m.r. spectroscopy, 11
- Diastereoisomers, synthesis of DL-2-amino-2-deoxyvalidamine and its three, 57
- Disaccharide glycosides, enzymic synthesis of HexNAc-containing, 79
- Effects of bismuth on the selective oxidation of lactose on supported palladium catalysts, 121
- Enzymic synthesis of HexNAc-containing disaccharide glycosides, 79
- Epimerization and isomerization of various monosaccharides using metal-diamine systems, 233
- Formation of 1-amino-1,4-dideoxy-2,3-hexodiuloses and 2-aminoacetylfurans in the Maillard reaction, 215
- Furcellaran-water system, structural aspects of phase separation in the, 161
- G.l.c.-m.s. of partially methylated and acetylated derivatives of L-glycero-D-manno- and D-glycero-D-manno heptopyranoses and -heptitols, 1
- Gauche effect of 3-acetamido- and 3-acetoxy-piperidine and -tetrahydropyran, determination by <sup>1</sup>H-n.m.r. spectroscopy of the, 11
- (1→6)-β-D-Galacto-oligosaccharides, specifically deoxygenated, synthesis and studies on binding to monoclonal antigalactan antibodies, 167

- D-Galactose-derived D-galacturonic acid derivatives suitable as glycosyl acceptors, 109
- Galactosylation of 1,10-bis(2-acetamido-2-deoxy-β-p-glucopyranosyloxy)decane, the preparation and enzymic, 141
- D-Galacturonic acid derivatives suitable as glycosyl acceptors, p-galactose-derived, 109
- Glucoamylase from Aspergillus niger, as studied by fluorescence spectrophotometry and steadystate kinetics, binding of isomaltose and maltose to the, 187
- Glucopyranosyl)-6-O-α-L-rhamnopyranosyl)-α-D- glucopyranoside, synthesis and characterization of methyl 2-O-(β-D-, 221
- Glycosyl acceptors, D-galactose-derived D-galacturonic acid derivatives suitable as, 109
- Glycosyl phosphosugars linked through secondary hydroxyl groups, application of the hydrogenphosphonate approach in the synthesis of, 65
- Heparin, anticoagulant and antiproliferative properties of, 131
- Heparin, carboxyl-reduced, sulfated, biological properties of, 131
- Heptopyranoses and -heptitols, g.l.c.-m.s. of partially methylated and acetylated derivatives of L-glycero-D-manno- and D-glycero-D-manno-, 1
- HexNAc-containing disaccharide glycosides, enzymic synthesis of, 79
- Hydrogenphosphonate approach in the synthesis of glycosyl phosphosugars linked through secondary hydroxyl groups, application of the, 65
- Isolation and characterisation of 3-deoxy-D-manno-octulopyranosonate 7-(2-aminoethylphosphate) from the inner core region of E. coli K12 and S. minnesota lipopolysaccharides, 93
- Isomaltose and maltose to the glucoamylase from Aspergillus niger, as studied by fluorescence spectrophotometry and steady-state kinetics, binding of, 187
- Isomerization of various monosaccharides using metal-diamine systems, epimerization and, 233
- Kinetic and mechanistic study, oxidation of some aldopentoses by chloramine-B in alkaline medium: a, 197
- Lipopolysaccharides from E. coli K 12 and S. minnesota, isolation and characterisation of 3-deoxy-D-manno-2-octulopyranosonate 7-(2-aminoethyl phosphate) from the inner core regions of, 93
- Maillard reaction, formation of 1-amino-1,4-dideoxy-2,3-hexodioloses and 2-aminoacetylfurans in the, 215
- Methyl 2-O-(β-D-glucopyranosyl)-6-O-α-L-rhamnopyranosyl)-α-D-glucopyranoside, synthesis

- and characterisation of, 221
- Methylated and acetylated derivatives of L-glycero-D-manno- and D-glycero-D-manno-heptopyranoses and -heptitols, g.l.c.-m.s. of partially, 1
- Monosaccharides using metal-diamine systems, epimerization and isomerization of various, 233
- Oxidation of lactose on supported palladium catalysts, the effects of bismuth on the selective, 121
- Oxidation of some aldopentoses by chloramine-B in alkaline medium: a kinetic and mechanistic study, 197
- Phase separation in the furcellaran-water systems, structural aspects of, 161
- Polysaccharide from Lactobacillus kefiranofaciens K<sub>1</sub>, structural investigation of the capsular, 227
- Polysaccharide secreted by Rhizobium leguminosarum var. phaseoli CIAT 899, structure of the extracellular, 103
- Rhizobium leguminosarum var. phaseoli CIAT 899, structure of the extracellular polysaccharide secreted by, 103
- Serratia marcescens, presence of amide-linked glutamic acid in an acidic polymer produced by the O23 reference strain of, 85
- Spacer-modified oligosaccharides as potential affinity reagents for galactosyltransferases: the preparation and enzymic galactosylation of 1,10-bis(2-acetamido-2-deoxy-β-D-glucopyranosyloxy)decane, 141
- Structural aspects of phase separation in the furcellaran-water system, 161
- Structural investigation of the capsular polysaccharide from *Lactobacillus kefiranofaciens* K<sub>1</sub>, 227
- Structural studies of acidic polymers produced by the O23 reference strain of Serratia marcescens: presence of amide-linked glutamic acid, 85
- Structure of the extracellular polysaccharide secreted by Rhizobium leguminosarum var. phaseoli CIAT 899, 103
- Synthesis of DL-2-amino-2-deoxyvalidamine and its three diastereoisomers, 57
- Synthesis and characterisation of methyl 2-O-(β-D-glucopyranosyl)-6-O-α-L-rhamnopyranosyl)-α-D-glucopyranoside, 221
- Teichoic acids of Clavibacter michiganense cell walls, characterization, 157
- Trestatin A sulfate, biological properties of, 131
- Xylan, starch, and chitin, conversion into carboxylic acids by treatment with alkali, 37

